

Sorbell

**RAW SEQUENCE LISTING**  
**ERROR REPORT**

BIOTECH LOGY  
SYSTEMS  
BRANCH



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:

09/515,369

Source:

1633

Date Processed by STIC:

4/22/2001

**RECEIVED**

MAY - 1 2001

TECH CENTER 1600/2900

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 3.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

**Checker Version 3.0**

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 - 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

# Sequence Listing Error Summary

## ERROR DETECTED SUGGESTED CORRECTION

SERIAL NUMBER:

09/515,369

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1        Wrapped Nucleics      The number/text at the end of each line "wrapped" down to the next line.  
This may occur if your file was retrieved in a word processor after creating it.  
Please adjust your right margin to .3, as this will prevent "wrapping".
- 2        Wrapped Aminos      The amino acid number/text at the end of each line "wrapped" down to the next line.  
This may occur if your file was retrieved in a word processor after creating it.  
Please adjust your right margin to .3, as this will prevent "wrapping".
- 3        Incorrect Line Length      The rules require that a line not exceed 72 characters in length. This includes spaces.
- 4        Misaligned Amino Acid      The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs  
Numbering      between the numbering. It is recommended to delete any tabs and use spacing between the numbers.
- 5        Non-ASCII      This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.  
Please ensure your subsequent submission is saved in ASCII text so that it can be processed.
- 6        Variable Length      Sequence(s)        contain n's or Xaa's which represented more than one residue.  
As per the rules, each n or Xaa can only represent a single residue.  
Please present the maximum number of each residue having variable length and  
indicate in the (ix) feature section that some may be missing.
- 7        PatentIn ver. 2.0 "bug"      A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid  
sequence(s)       . Normally, PatentIn would automatically generate this section from the  
previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section  
to the subsequent amino acid sequence. **This applies primarily to the mandatory <220>-<223>  
sections for Artificial or Unknown sequences.**
- 8        Skipped Sequences      Sequence(s)        missing. If intentional, please use the following format for each skipped sequence:  
(OLD RULES)      (2) INFORMATION FOR SEQ ID NO:X:  
(i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")  
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:  
This sequence is intentionally skipped  
  
Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).
- 9        Skipped Sequences      Sequence(s)        missing. If intentional, please use the following format for each skipped sequence.  
(NEW RULES)      <210> sequence id number  
<400> sequence id number  
000
- 10        Use of n's or Xaa's      Use of n's and/or Xaa's have been detected in the Sequence Listing.  
(NEW RULES)      Use of <220> to <223> is MANDATORY if n's or Xaa's are present.  
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 11        Use of "Artificial"      Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules.  
(NEW RULES)      Valid response is Artificial Sequence.
- 12        Use of <220>Feature      Sequence(s) 2-13 are missing the <220>Feature and associated headings.  
(NEW RULES)      Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial Sequence" or "Unknown"  
Please explain source of genetic material in <220> to <223> section.  
(See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)
- 13        PatentIn ver. 2.0 "bug"      Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted  
file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).  
Instead, please use "File Manager" or any other means to copy file to floppy disk.

1633

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/515,369

DATE: 04/22/2001  
TIME: 14:17:03

Input Set : A:\56778.txt  
Output Set: N:\CRF3\04222001\I515369.raw

Does Not Comply  
Corrected Diskette Needed

3 <110> APPLICANT: Fisher, Paul  
4 Madireddi, Malavi  
6 <120> TITLE OF INVENTION: MELANOMA DIFFERENTIATION ASSOCIATED GENE-7 PROMOTER AND USES THEREOF  
8 <130> FILE REFERENCE: 0575/56778/JPW/APE  
10 <140> CURRENT APPLICATION NUMBER: 09/515,369  
11 <141> CURRENT FILING DATE: 2000-02-29  
13 <160> NUMBER OF SEQ ID NOS: 13  
15 <170> SOFTWARE: PatentIn version 3.0  
17 <210> SEQ ID NO: 1  
18 <211> LENGTH: 2286  
19 <212> TYPE: DNA  
20 <213> ORGANISM: Human  
22 <400> SEQUENCE: 1  
23 taatacgact cactataggg cgtcgactcg atcacctttt gaaccaggt ctgcctgcct 60  
25 ccaaagcttg tactcataac tagattctca actgatgttg ggccaaggtt cctaggttct 120  
27 ctoccttgacc ttccctctga agtaataatg ctatgataag ctcacggag gctgaggccc 180  
29 aggcacatgt ttgcctgaac tatccatgtt atatgattcc ttccctcagac agagtgaagt 240  
31 actcacgac ccaggtgtac cctgaggcca gccaaaggtgt atccatgacc tcatgcctct 300  
33 gttccagcct gccctttaac agctcatccc acctgcctgc cctccccgcc tatctgcaga 360  
35 cagtagtcta ggatttcagc tgccctgggg gctcattttc cctctcagct tccctgttta 420  
37 gctgtctcct gccctccact cactatttac tccagcactc tcacctggtc ttcttttctg 480  
39 tctcatcact gccctctgac atctttatct catagtagtt agttagggtt tcttggtaat 540  
41 gccctaaatc cacatggttg gaagggggga gtgggggaag agagtgcgt gtggggctgt 600  
43 gcctacttct ggagggttaag actcggggcc tccaggaaca aaggattcag gctggtggca 660  
45 gctatagcca agcagactgc tggccaggga ttgcaaagga gtattttgtt tgcttaagaa 720  
47 aataaacaac actgagtatg agatggaggg agggggtgtt ggtgccagag agattgggaa 780  
49 gagtctgcca aggtgtgtt ctactcactc tctcttttc tttcatctcc actgagctgg 840  
51 aggcagttat cctgtccccc acgtcacatt cctactcccg tttcccatgc ctggaccag 900  
53 gttgggcaaa ctcttctgt aaagaaccag acaggaacta ttttaggtc tgtgtgccat 960  
55 atggtctcag tcacaactac tcatctctgc ctctgtagca cgaaagcaat tagcaacaat 1020  
57 atgtcaacaa acatatgtga ccccatgaaa actttattta ttatggatag ggaaacctga 1080  
59 aaataatgtc tttcttttga ttttttcccc aatcattaaa aaacgtaaaa actactctta 1140  
61 ggtcgcaagg ttaagccatt ctacgcttag cagtggcagg ctggatttgg cttgtgaact 1200  
63 acagttggcc aatccctgat tcccaaatg tattcctcag ggatgtgggc aaatacttat 1260  
65 gggaagtgtc ggattaaaca gatttaagaa gcatcagaca tttccaggac gggctagcac 1320  
67 atgccagggc tctctaactg acctcattgg attcatctgt ttcattggag atcttgcaag 1380  
69 acaagaattc ctcaaaccta gagtctgagg actgtgcttt gggaaacct gctctgcttg 1440  
71 atgccctcac tgggcacatg gtagaatcta gagctgagtg ccttgctagc tggagatagg 1500  
73 gtcagagctc ttgactgccc tggcagctt gacacatcac gctgtctgtg tccctgagt 1560  
75 ggttcagagc cacacaggcc aagactagcc caccagagca ccaggcctcc cagctttctg 1620  
77 ggcttgtcca tgcgtacatt tcttatttct tcttggtttc cagaacctaa ggagaggcac 1680  
79 attttggttg agtgattata acctaggga ccatgggttag ctgcatgtca ggaaacactc 1740  
81 ctcaacttcc tggccctgat ggattaaagg agaggtactt acaggttatt tcttcgctgt 1800  
83 ggaactactgt cccagcatga atagggcac atatttgaat tattttgaca ggaaggagac 1860  
85 tgggtgtatg tgcacagtaa taatgtattt acatgtgtac agagtttacc aagcacctct 1920  
87 gtgttgtttt tgcctttgtt tattacactt gggacaaatt tttaaaattt atacatgcag 1980  
89 agactgcagc gcagagaagc taagagactt gccctgccc acacagccag tggtagagcc 2040

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/515,369

DATE: 04/22/2001  
 TIME: 14:17:03

Input Set : A:\56778.txt  
 Output Set: N:\CRF3\04222001\I515369.raw

91 tgaactcaaa cccaggtctc atctcacctc aggggctgct ttcccatcg ctgtattgtc 2100  
 93 cttaaagtga tgggtgacta ggcaatgaag taattctcta ggaaagcatg accaatttcc 2160  
 95 ctttctccac ctccctcttt ttctccacc cctcccccac cagcccccac atatatgcc 2220  
 97 aaatctccac aaagccttgc ttgctgcaa acctttactt ctgaaatgac ttccacggct 2280  
 99 gggacg 2286

102 <210> SEQ ID NO: 2  
 103 <211> LENGTH: 21  
 104 <212> TYPE: DNA

C--> 105 <213> ORGANISM: Artificial  
 W--> 107 <220> FEATURE:  
 W--> 107 <223> OTHER INFORMATION:

107 <400> SEQUENCE: 2  
 108 cgtcccagcc gtggaagtca t 21  
 111 <210> SEQ ID NO: 3  
 112 <211> LENGTH: 21  
 113 <212> TYPE: DNA

C--> 114 <213> ORGANISM: Artificial  
 W--> 116 <220> FEATURE:  
 W--> 116 <223> OTHER INFORMATION:

116 <400> SEQUENCE: 3  
 117 aggcctggatt tggcttgga c 21  
 120 <210> SEQ ID NO: 4  
 121 <211> LENGTH: 21  
 122 <212> TYPE: DNA

C--> 123 <213> ORGANISM: Artificial  
 W--> 125 <220> FEATURE:  
 W--> 125 <223> OTHER INFORMATION:

125 <400> SEQUENCE: 4  
 126 ctgtttaatc cagcaattcc c 21  
 129 <210> SEQ ID NO: 5  
 130 <211> LENGTH: 21  
 131 <212> TYPE: DNA

C--> 132 <213> ORGANISM: Artificial  
 W--> 134 <220> FEATURE:  
 W--> 134 <223> OTHER INFORMATION:

134 <400> SEQUENCE: 5  
 135 cgcttgatga ctacgccgga a 21  
 138 <210> SEQ ID NO: 6  
 139 <211> LENGTH: 20  
 140 <212> TYPE: DNA

C--> 141 <213> ORGANISM: Artificial  
 W--> 143 <220> FEATURE:  
 W--> 143 <223> OTHER INFORMATION:

143 <400> SEQUENCE: 6  
 144 tgcagattgc gcaatctgca 20  
 147 <210> SEQ ID NO: 7  
 148 <211> LENGTH: 21  
 149 <212> TYPE: DNA

C--> 150 <213> ORGANISM: Artificial

(global errors)

see item 11 on Error Summary Sheet  
 see item 12 on Error Summary Sheet

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/515,369

DATE: 04/22/2001  
 TIME: 14:17:03

Input Set : A:\56778.txt  
 Output Set: N:\CRF3\04222001\I515369.raw

```

W--> 152 <220> FEATURE:
W--> 152 <223> OTHER INFORMATION:
      152 <400> SEQUENCE: 7
      153 cgcttgatga cttggccgga a
      156 <210> SEQ ID NO: 8
      157 <211> LENGTH: 22
      158 <212> TYPE: DNA
C--> 159 <213> ORGANISM: Artificial
W--> 161 <220> FEATURE:
W--> 161 <223> OTHER INFORMATION:
      161 <400> SEQUENCE: 8
      162 tgcagagaga ctagtctctg ca
      165 <210> SEQ ID NO: 9
      166 <211> LENGTH: 61
      167 <212> TYPE: DNA
C--> 168 <213> ORGANISM: Artificial
W--> 170 <220> FEATURE:
W--> 170 <223> OTHER INFORMATION:
      170 <400> SEQUENCE: 9
      171 uuguauuuuau uacaacucua uuuuauuuau gucaguauuu caacugaagu ucuauuuauu
      173 u
      176 <210> SEQ ID NO: 10
      177 <211> LENGTH: 15
      178 <212> TYPE: DNA
C--> 179 <213> ORGANISM: Artificial
W--> 181 <220> FEATURE:
W--> 181 <223> OTHER INFORMATION:
      181 <400> SEQUENCE: 10
      182 uauuuauuuu uuuua
      185 <210> SEQ ID NO: 11
      186 <211> LENGTH: 51
      187 <212> TYPE: DNA
C--> 188 <213> ORGANISM: Artificial
W--> 190 <220> FEATURE:
W--> 190 <223> OTHER INFORMATION:
      190 <400> SEQUENCE: 11
      191 uauuuuuuau auuuuuuuau uuuuuuuuuu uuuuuuuuuu uuuuuuuuuu a
      194 <210> SEQ ID NO: 12
      195 <211> LENGTH: 34
      196 <212> TYPE: DNA
C--> 197 <213> ORGANISM: Artificial
W--> 199 <220> FEATURE:
W--> 199 <223> OTHER INFORMATION:
      199 <400> SEQUENCE: 12
      200 auuuuuuuuu auuuuuuuuu uuuuuuuuuu uuuu
      203 <210> SEQ ID NO: 13
      204 <211> LENGTH: 56
      205 <212> TYPE: DNA
C--> 206 <213> ORGANISM: Artificial

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## RAW SEQUENCE LISTING

DATE: 04/22/2001

PATENT APPLICATION: US/09/515,369

TIME: 14:17:03

Input Set : A:\56778.txt

Output Set: N:\CRF3\04222001\I515369.raw

W--&gt; 208 &lt;220&gt; FEATURE:

W--&gt; 208 &lt;223&gt; OTHER INFORMATION:

208 &lt;400&gt; SEQUENCE: 13

209 guuuuuuuuu uuuuuuuuuu gauggauucu cagauuuuuu uuuuuuuuu uuauuu

56

## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/515,369

DATE: 04/22/2001

TIME: 14:17:04

Input Set : A:\56778.txt

Output Set: N:\CRF3\04222001\I515369.raw

L:105 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:2  
L:107 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:107 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:114 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:3  
L:116 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:116 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:123 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:4  
L:125 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:125 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:132 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:5  
L:134 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:134 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:141 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:6  
L:143 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:143 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:150 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:7  
L:152 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:152 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:159 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:8  
L:161 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:161 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:168 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:9  
L:170 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:170 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:179 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:10  
L:181 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:181 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:188 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:11  
L:190 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:190 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:197 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:12  
L:199 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:199 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:206 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:13  
L:208 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:208 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION: